

TRANSLATION
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Serial Number Information

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Charge to Location : 27E1/SPE OF GAU ASSIGNED

Charge to Name : No Charge to Name

Station location : GRP 2700

Title of Invention :

METHOD AND DEVICE FOR SECURING ACCESS TO A SERVICE IN A
TELECOMMUNICATIONS NETWORK

Serial Info	Contents	Details	Atty/Agent Info	Continuity Data	Foreign Data	Inventors
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Translation

PATENT COOPERATION TREATY

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference GR 98P1245P	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE98/02949	International filing date (day/month/year) 02 October 1998 (02.10.98)	Priority date (day/month/year) 27 February 1998 (27.02.98)
International Patent Classification (IPC) or national classification and IPC H04L 9/32		
Applicant SIEMENS AKTIENGESELLSCHAFT		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>1</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input checked="" type="checkbox"/> Certain defects in the international application</p> <p>VIII <input checked="" type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 04 May 1999 (04.05.99)	Date of completion of this report 25 April 2000 (25.04.2000)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE98/02949

I. Basis of the report

1. This report has been drawn on the basis of (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

- ☐ the international application as originally filed.
- ☒ the description, pages 1-10, as originally filed,
 pages _____, filed with the demand,
 pages _____, filed with the letter of _____,
 pages _____, filed with the letter of _____.
- ☒ the claims, Nos. _____, as originally filed,
 Nos. _____, as amended under Article 19,
 Nos. _____, filed with the demand,
 Nos. 1-3, filed with the letter of 17 February 2000 (17.02.2000),
 Nos. _____, filed with the letter of _____.
- ☒ the drawings, sheets/fig 1/2, 2/2, as originally filed,
 sheets/fig _____, filed with the demand,
 sheets/fig _____, filed with the letter of _____,
 sheets/fig _____, filed with the letter of _____.

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-3	YES
	Claims		NO
Inventive step (IS)	Claims	1-3	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-3	YES
	Claims		NO

2. Citations and explanations

1. The subject matter of Claim 1 is novel and inventive (PCT Article 33(2) and (3)).

1.1 The claim relates to a method for providing security of access to a service in an intelligent telecommunications network (IN). Security of access is achieved by entering an unambiguous sequence of numbers at a terminal, the sequence being known only to the user of the service. The sequence of numbers is communicated to a central authority and evaluated there. Before transmission, the sequence of numbers is completed by means of a further changeable parameter and encrypted using an algorithm. The result of the calculation is communicated to a central authority by means of a multi-frequency dialling method. The use of the service is then made available if the access code has not been received in a predetermined time interval.

1.2 This procedure is not suggested by the prior art.

D1, DE A 43 25 459, discloses a similar method of ensuring security. This method does not relate, however, to services that are offered by the network

itself. The known method relates to the carrying out of bank transactions, using not the bank's own network but the public telephone network. Even if the method known from **D1** were also to be applied to an IN network, one would not arrive at the subject matter of Claim 1. The transaction method as per **D1** makes it possible in principle to carry out any number of transactions within a certain time interval. This is the opposite of making a service available if the access code has not been received within a certain time interval.

US-A-5 363 459 is less relevant, because the encrypting does not take place in the transfer to the central authority. The central authority only calculates a PIN number, which is communicated to the user via a separate channel.

FR-A-2 701 181 relates to a games system in which no encrypting takes place. The user has a chip card which has an encrypted code that is transmitted during transmission to the central authority.

FR-A-2 753 860 similarly does not include any encrypting. A card sends data that have already been encrypted. The transmission of the user's PIN number takes place in plain language.

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VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

1. **D1** is not mentioned in the description (PCT Rule 5.1(a)(ii)).

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

1. The claims are restricted to a method for ensuring security of access to a service in an intelligent communications network (IN). The description contains embodiments (cf. page 1, lines 6-15) which do not relate to any IN networks. These embodiments relate, for example, to private or mobile radio networks. As these embodiments are not covered by the claims, doubts arise as to the range of protection (cf. Guidelines III, 4.3).